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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,711	01/06/2004	Jinhua Huang	140021	1710
23413 75	05/09/2005		EXAMINER	
CANTOR COLBURN, LLP			ARANA, LOUIS M	
55 GRIFFIN RO BLOOMFIELD			ART UNIT PAPER NUMBER	
	, 01 00002		2859	· · · · · · · · · · · · · · · · · · ·
			DATE MAILED: 05/09/2009	ς.

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Ossie e Andie e Company	10/707,711	HUANG ET AL.
Office Action Summary	Examiner	Art Unit
	Louis M. Arana	2859
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	•	
2a)⊠ This action is FINAL. 2b)☐ This		
3) Since this application is in condition for allowan		secution as to the merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-24 is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	n from consideration.	•
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-24</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	election requirement.	•
Application Papers		
9) The specification is objected to by the Examine	Г.	·
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the B	Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).
a) All b) Some * c) None of:		
1. Certified copies of the priority documents	s have been received.	
2. Certified copies of the priority documents	s have been received in Applicati	on No
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage
application from the International Bureau	(PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list	of the certified copies not receive	ed.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)

DETAILED ACTION

1. This communication is responsive to amendment 3/1/05. Claims 1-24 are currently pending in this application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-20 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Ono et al. P.N. 5,581,223 (Ono).

One discloses a magnet for MRI. As shown in Fig 1, the magnet includes a plurality of main coils 3 radially surrounded by a plurality of shielding coils 2. The shielding coils shape the fringe field produced by the main coils so that an area of low fringe or stray field (5 gauss line) is created. Electronics can be safely placed at 2.06 m from the center of the FOV. See lines 1-14 of col.7. One meets all the limitations of the claims at issue.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ono as applied to claim 1 above, and further in view of Crozier et al. P.N. 5,818,319. The difference between Ono and the claims at issue is that Ono does not specifically suggest the use of computerized optimization for determining coil positions for his magnet arrangement.

Crozier discloses methods for designing actively shielded magnets for Magnetic Resonance Imaging. See Example 1 at col. 12 and note the main and shielding coils 72 and 74. Col. 6-12 describe how the design of the shielded magnet can be optimized using a computer optimization program. Note that fringe field requirements are defined as described for example in the third paragraph of col. 9.

To use the optimization taught by Crozier to design a shielded magnet having the advantages of Ono would have been obvious to the artisan of ordinary skill in the art.

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7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pissanetzky, Palkovich et al., and Krogmann et al. all disclose actively shielded magnets for MRI. Note their entire disclosures.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis M. Arana whose telephone number is (571) 272-2236. The examiner can normally be reached on M-Thurs. Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. Gutierrez can be reached on (703) 308-3875. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Louis M. Arana Primary Examiner Art Unit 2859

lma 5/5/05